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st ♦ Awards Management ♦

Contract ♦ Cooperative

es ♦ Health Agencies ♦

otiation ♦ Facilitation ♦ Awards

Scholarship ♦ Student Support

gement ♦ Interpretation ♦

operative Agreement ♦ Basic

es ♦ Institutes ♦ Associations

wards ♦ Proposals ♦ Funding

Support ♦ Education ♦

pretation ♦ Reasonableness

ment ♦ Basic Agreement ♦

s ♦ Associations ♦ Audits ♦

posals ♦ Funding ♦ Projects ♦

lucation ♦ Allocability ♦

reasonableness of Cost ♦

ic Agreement ♦ Foundations

ons ♦ Audits ♦ Intellectual

nding ♦ Projects ♦

cability ♦ Allowability ♦

Sponsored Activities

Annual Report Fiscal Year 1998



Supporting Tomorrow Today

University of Massachusetts Amherst

Office of Grant and Contract Administration

Comments From the Vice Chancellor for Research

Fiscal Year 1998 was another successful year for faculty and staff applying for external funding. Principal Investigators submitted proposals totaling \$6M (5%) more than in FY '97, though this represented only nine additional proposals. Awards funding kept pace with the rate of inflation, reflecting a \$1.9M (3%) increase over the previous year, though the actual number of awards increased by 11%. The total funding of \$72.1M surpassed the previous FY '95 record year by 1%, with a 13% increase in indirect costs over that milestone year, for total indirect cost funding of \$15.2M. In FY '98 indirect costs increased consistently with direct costs, thereby maintaining the same ratio of indirect to direct (26.7%) as was received in FY '97.

Several colleges and organizational units received significant increases in award volume over FY '97. Included in these were the areas of Academic Support, the College of Food and Natural Resources, the College of Social and Behavioral Sciences, the Vice Chancellery for Research, the School of Education, the School of Public Health and Health Sciences, and University Outreach. Some particularly noteworthy increases, all of which recognized over 100% growth in dollars awarded were in the Fine Arts Center, the Departments of Food Science, and Mathematics and Statistics, the Scientific Reasoning Research Institute, the Departments of Anthropology, Economics, Environmental Health Sciences and Nutrition.

Federal funding rose a steady 6% despite the fact that DoD funding fell 61%, representing 30% of the total federal dollars awarded in FY '97 but only 10% in FY '98. NSF and NASA rebounded by 51% and 114% respectively, from their FY '97 losses. Award dollars from USDA increased 98% and DHHS increased by 47% over FY '97. Given that NIH has received their largest budget ever for FY '99 (approximately \$15B), we look forward to continued increases from DHHS during this next fiscal year. Taken together, federal funding comprised two-thirds of all award dollars received in FY '98, and 76% of the awarded indirect costs.

Sponsored activities support from the Commonwealth decreased in FY '98 by almost the same percentage as it increased from FY '96 to '97, approximately 45%. The Other States and Local Governments category continued with large increases (51%) as it did last year, including 176% increase in indirect costs. All categories of Private Sector sponsor funding also increased over FY '97 levels, with Foundations leading the way by leaping 41%.

With the ever-increasing competition for resources, the investigators are to be commended for their persistent efforts and distinguished achievements in the area of Sponsored Activities. Recognition for the diligent and dedicated assistance of support staff must also be acknowledged.



Frederick W. Byron, Jr.
Vice Chancellor for
Research

Notes

1. Reporting Costs, Awarded vs. Recovered

Each year a certain amount of confusion appears to be generated by the difference, often significant, between the funds reported in the OGCA Report of Sponsored Activities (RSA) as awarded during the fiscal year to the Amherst Campus and the University's Financial Records Systems (FRS) of funds expended and indirect costs earned during the same fiscal year. These differences can be particularly baffling or misleading in the planning of projections of indirect cost.

The following explanation may help reduce the confusion:

A. The OGCA Report of Sponsored Activities lists the amount of firm commitments awarded by outside sponsors to the University during the period of the fiscal year being reported. This does not necessarily coincide with the effective dates for incurring expenditures and recovering indirect costs. Figures 10 and 11 on page 20 illustrate the differences between \$ awarded and \$ expended over a ten year period.

B. If a multiple year award is issued, the firm commitment of funds is reported. For example, if a three year award is issued, with either incremental funding or firm commitment of only the first year, only the amount of the increment or first year is reported (generally the effective dates will reflect only the first period). The remainder of the funds and effective dates are reported when the sponsor authorizes or releases the additional funds. If the Sponsor authorizes the full amount with no contingencies for a multiple year period, then the total amount for the full project period is reported in the same year it was awarded.

C. The University Financial System reports expenditures and indirect cost recovery during the period that the awards are active. Indirect costs are charged and recovered monthly, based on the current month's actual expenditures of each account/award.

It may be readily seen how, as a result of the two methods of reporting, awards (RSA) and actual expenditures (FRS), awarded vs. earned indirect costs during any particular period cannot be reconciled exactly. However the data from both systems is valuable in the University's analyses and projections.

2. Awards with negative dollar amounts.

Reductions of awards, e.g. sponsor mandated reduction, early termination, transfer of grant to another institution, etc., are recorded as negative dollar amounts. They are listed in the report as credits with new OGCA numbers. This serves to report changes in awards during the time period in which they occur.

3. Report Distribution and Availability.

OGCA is producing printed copies of the Sponsored Activities Report on an annual basis only. The Award Detail sections are not included as part of the standard report; instead, a limited number of this larger volume will be printed with the title of Sponsor Supplement and Award Detail. All reports, including the Annual, Quarterly and Monthly cumulative summary and detail reports by OU, sponsor, and PI will be available in either HTML or unformatted text files from the OGCA Home Page at www.umass.edu/research/ogca. The Monthly reports will be posted approximately the 20th of each following month.

If accessibility to the WEB is limited, individuals are invited to send a written request to the following address for printed copies:

gelineau@admin.umass.edu, or
Wayne Gelineau, OGCA, 408 Goodell Building.

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The FY 1998 Annual Report and unformatted periodic data are available on the WWW,
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Proposals

Figure 1
Proposal Dollars Fiscal Years 1989-1998

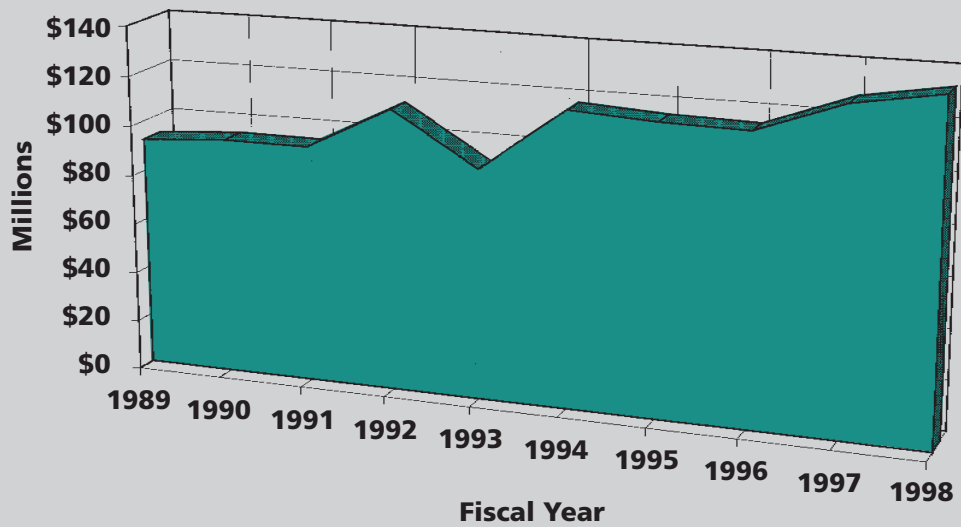


Figure 2
Number of Proposals Fiscal Years 1989-1998

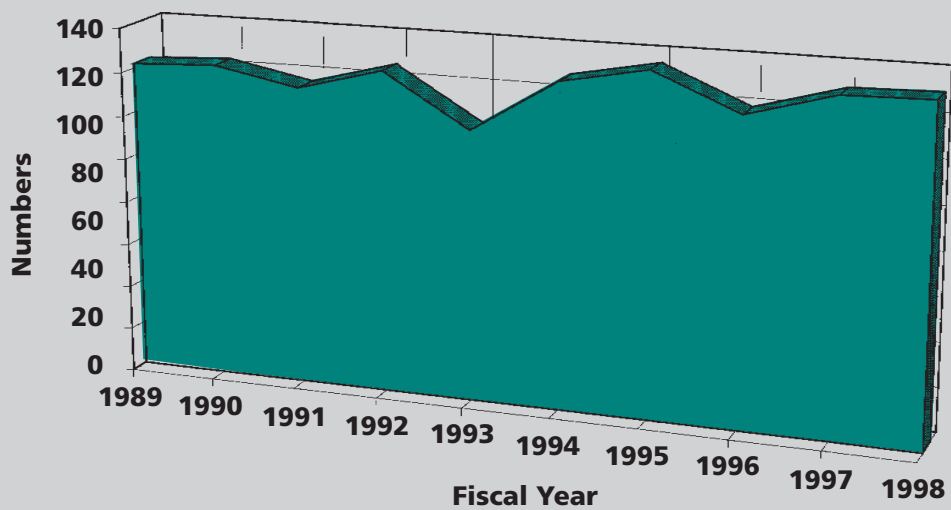


Table 1
Proposals Submitted by Organizational Unit FY 1998

Organizational Unit	Proposals	\$ Direct	\$ Indirect	\$ Total
Academic Administration				
Inst Advanced Study in the Humanities	2	340,000	0	340,000
Provost's Office	1	150,000	0	150,000
MBU Total	3	\$490,000	\$0	\$490,000
Academic Support				
Fine Arts Center	13	402,980	14,364	417,344
International Programs	6	283,777	3,458	287,235
MBU Total	19	\$686,757	\$17,822	\$704,579
Academic Support Services				
Academic Support Services	1	224,851	17,988	242,839
MBU Total	1	\$224,851	\$17,988	\$242,839
College of Engineering				
Dean-School of Engineering	1	86,362	44,182	130,544
Chemical Engineering	54	2,815,043	633,735	3,448,778
Civil and Environmental Engineering	42	2,650,236	723,078	3,373,314
Electrical and Computer Engineering	95	6,874,567	2,124,443	8,999,010
Mechanical and Industrial Engineering	66	9,302,780	1,760,206	11,062,986
UMASS Transportation Center	1	81,454	37,019	118,473
MBU Total	259	\$21,810,442	\$5,322,663	\$27,133,105
College of Food and Natural Resource				
Administration-CFNR	2	15,696	1,304	17,000
Consumer Studies	2	93,291	39,672	132,963
Entomology	84	2,707,088	390,969	3,098,057
Extension - Cranberry Station	43	332,431	2,080	334,511
Food Science	33	1,506,904	330,199	1,837,103
Forestry and Wildlife Management	93	3,275,318	552,582	3,827,900
Hotel Restaurant and Travel Admin	1	31,800	3,180	34,980
Landscape Arch and Regional Planning	10	393,681	62,059	455,740
Microbiology	53	2,631,031	981,721	3,612,752
Organismic and Evolutionary Biology	1	20,038	10,821	30,859
Plant and Soil Sciences	57	600,812	60,561	661,373
Resource Economics	9	226,617	33,325	259,942
Veterinary and Animal Sciences	24	1,699,549	428,145	2,127,694
MBU Total	412	\$13,534,256	\$2,896,618	\$16,430,874

Table 1: Proposals Submitted by Organizational Unit FY 1998

Organizational Unit	Proposals	\$ Direct	\$ Indirect	\$ Total
College of Humanities and Fine Arts				
Art History	1	137,944	10,716	148,660
Asian Languages and Literature	2	43,707	0	43,707
Comparative Literature	2	79,773	7,727	87,500
English	4	232,319	0	232,319
History	2	241,171	56,126	297,297
Linguistics	5	634,740	217,386	852,126
Spanish and Portuguese Languages	1	97,403	52,597	150,000
MBU Total	17	\$1,467,057	\$344,552	\$1,811,609
College of Natural Sciences and Math				
Biochemistry and Molecular Biology	42	3,700,144	1,458,230	5,158,374
Biology	56	6,683,498	1,689,327	8,372,825
Chemistry	65	4,866,834	1,263,100	6,129,934
Computer Science	128	16,692,380	6,000,821	22,693,201
Geosciences	30	1,236,961	492,207	1,729,168
Mathematics and Statistics	25	1,360,953	538,430	1,899,383
Physics and Astronomy	54	5,991,380	1,390,210	7,381,590
Polymer Science and Engineering	89	7,828,425	3,271,018	11,099,443
Scientific Reasoning Research Institute	6	580,848	272,674	853,522
MBU Total	495	\$48,941,423	\$16,376,017	\$65,317,440
College of Social and Behavioral Sciences				
Anthropology	4	98,459	26,339	124,798
Communication	1	123,611	58,593	182,204
Economics	4	164,636	32,587	197,223
MA Inst for Social and Economic Research	5	326,646	32,663	359,309
Political Science	3	407,620	33,216	440,836
Psychology	59	4,876,632	1,269,450	6,146,082
Sociology	10	475,947	102,632	578,579
MBU Total	86	\$6,473,551	\$1,555,480	\$8,029,031
Dean of Students				
Everywoman's Center	4	122,979	0	122,979
MBU Total	4	\$122,979	\$0	\$122,979
Housing Services				
Housing Services-Family Housing	1	30,000	0	30,000
MBU Total	1	\$30,000	\$0	\$30,000
Human Resources				
Human Resources	7	97,801	7,585	105,386
MBU Total	7	\$97,801	\$7,585	\$105,386

Table 1: Proposals Submitted by Organizational Unit FY 1998

Organizational Unit	Proposals	\$ Direct	\$ Indirect	\$ Total
Office of Information Technologies				
Office of Information Technologies	2	134,255	72,498	206,753
MBU Total	2	\$134,255	\$72,498	\$206,753
Physical Plant				
Physical Plant Waste Management	1	4,250	0	4,250
MBU Total	1	\$4,250	\$0	\$4,250
School of Education				
Educational Policy Research and Admin.	15	2,403,319	503,461	2,906,780
Student Dev and Pupil Personnel Services	6	308,004	35,267	343,271
Teacher Ed and Curriculum Studies	13	791,060	115,871	906,931
MBU Total	34	\$3,502,383	\$654,599	\$4,156,982
School of Management				
Finance and Operations Management	3	56,479	0	56,479
MA Small Business Dev Ctr	6	778,139	0	778,139
Management	1	40,547	0	40,547
MBU Total	10	\$875,165	\$0	\$875,165
School of Nursing				
School of Nursing	14	498,373	52,497	550,870
MBU Total	14	\$498,373	\$52,497	\$550,870
School of Public Health and Health Sciences				
Office of The Dean-Health Sciences	2	72,964	2,174	75,138
Biostatistics and Epidemiology	24	883,318	320,033	1,203,351
Communications Disorders	3	136,636	40,284	176,920
Community Health Studies	6	573,193	79,707	652,900
Environmental Health Sciences	4	229,209	79,086	308,295
Exercise Science	17	1,115,068	396,152	1,511,220
Nutrition	10	897,984	143,489	1,041,473
MBU Total	66	\$3,908,372	\$1,060,925	\$4,969,297

Table 1: Proposals Submitted by Organizational Unit FY 1998

Organizational Unit	Proposals	\$ Direct	\$ Indirect	\$ Total
University Outreach				
Extension - UMASS	9	428,930	69,850	498,780
University Without Walls	1	23,760	1,900	25,660
WFCR	2	239,561	0	239,561
MBU Total	12	\$692,251	\$71,750	\$764,001
Vice Chancellery for Research/Vice Chancellor for Research				
Office of the VC for Research	5	174,676	4,146	178,822
MBU Total	5	\$174,676	\$4,146	\$178,822
Vice Chancellery for Research/Environmental Institute				
TEI - Forestry	2	40,191	8,038	48,229
The Environmental Institute	43	947,185	149,712	1,096,897
Water Res and Research Ctr	10	230,462	44,599	275,061
MBU Total	55	\$1,217,838	\$202,349	\$1,420,187
Vice Chancellery for Research/Research Services				
Office of Research Affairs	2	132,056	18,465	150,521
MBU Total	2	\$132,056	\$18,465	\$150,521
Vice Chancellery for Research/University Press				
University Press	5	19,392	0	19,392
MBU Total	5	19,392	0	19,392
VC for Research Total	65	\$1,586,582	\$210,641	\$1,797,233
Total Fiscal Year 1998	1,510	\$105,038,128	\$28,675,954	\$133,714,082
Total Fiscal Year 1997	1,501	\$101,179,784	\$26,574,679	\$127,754,463
% Change , FY 1997 to FY 1998	1	4	8	5

Figure 3
Percent of Proposal \$ Value by Major Organizational Unit FY 1998
Total Value - \$133,714,082

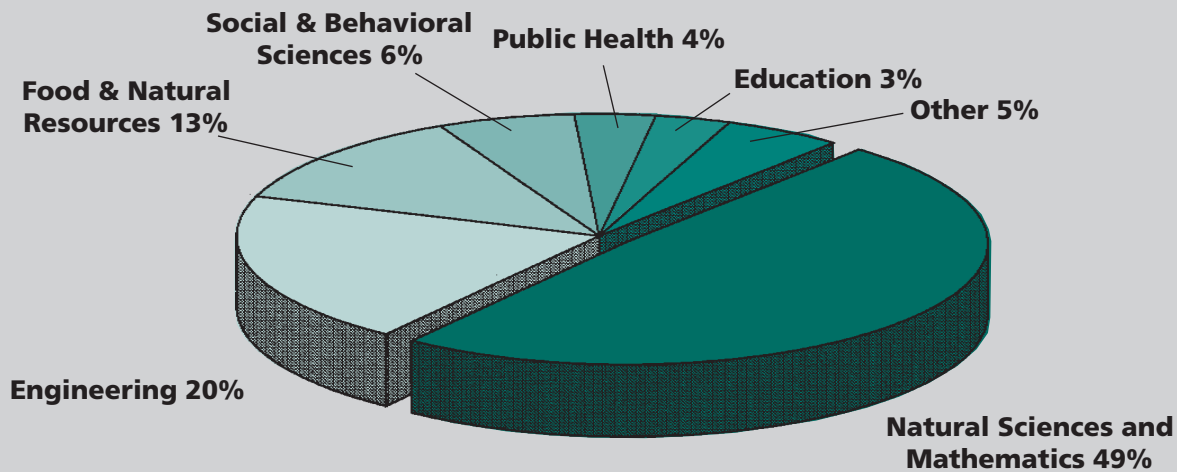


Table 2
Proposals Submitted to Federal Agencies FY 1998

Sponsor	Proposals	\$ Direct	\$ Indirect	\$ Total
US Dept of Agriculture				
MIS/Animal and Plant Health Inspection	2	65,412	5,341	70,753
NRE/Forest Service	21	582,856	14,844	597,700
SEA/Coop State Res, Educ & Ext Service	3	162,583	26,467	189,050
SEA/Cooperative State Research Service	2	296,072	151,693	447,765
US Dept of Agriculture	39	2,879,468	422,879	3,302,347
USDA/Agricultural Research Service	4	154,000	0	154,000
Total	71	\$4,140,391	\$621,224	\$4,761,615
US Dept of Commerce				
Economic Development Administration	2	107,636	8,366	116,002
National Inst of Standards & Technol	2	74,682	16,508	91,190
NOAA/National Marine Fisheries Service	4	185,650	39,628	225,278
NOAA/National Oceanic & Atmospheric Admin.	10	269,243	87,577	356,820
Total	18	\$637,211	\$152,079	\$789,290

Table 2: Proposals Submitted to Federal Agencies FY 1998

Sponsor	Proposals	\$ Direct	\$ Indirect	\$ Total
US Dept of Defense				
Air Force	14	1,870,363	833,863	2,704,226
Air Force Office of Scientific Research	10	996,719	454,281	1,451,000
Army	5	284,077	137,646	421,723
Army Natick R&D & Engineering Ctr	1	32,046	0	32,046
Army Research Lab	1	33,965	18,511	52,476
Army Research Office	13	1,001,796	267,734	1,269,530
Defense Advanced Research Proj Agency	8	2,518,174	1,080,334	3,598,508
National Imagery and Mapping Agency	1	105,723	48,451	154,174
Naval Command, Control Osc Rdte Div	1	151,361	79,016	230,377
Office of Naval Research	25	2,065,296	673,533	2,738,829
US Dept of Defense	1	46,405	24,595	71,000
Total	80	\$9,105,925	\$3,617,964	\$12,723,889
US Dept of Education				
Save the Children	1	840,133	234,401	1,074,534
US Dept of Education	13	1,750,993	116,977	1,867,970
Total	14	\$2,591,126	\$351,378	\$2,942,504
US Dept of Energy				
Lawrence Livermore National Laboratory	4	776,896	286,648	1,063,544
Los Alamos National Laboratory	1	49,075	26,584	75,659
US Dept of Energy	17	1,888,347	751,331	2,639,678
Total	22	\$2,714,318	\$1,064,563	\$3,778,881
US Dept of Health and Human Services				
Admin for Children & Families	2	30,000	0	30,000
PHS/Agency for Health Care Policy	1	30,000	2,174	32,174
PHS/Centers for Disease Control	1	38,857	0	38,857
PHS/Health Resources and Services Ad	4	339,292	17,595	356,887
PHS/National Institutes of Health	128	14,666,465	5,329,532	19,995,997
US Dept of Health and Human Services	1	24,636	13,364	38,000
Total	137	\$15,129,250	\$5,362,665	\$20,491,915
US Dept of Housing & Urban Development				
US Dept of Housing & Urban Development	1	329,058	65,812	394,870
Total	1	\$329,058	\$65,812	\$394,870

Table 2: Proposals Submitted to Federal Agencies FY 1998

Sponsor	Proposals	\$ Direct	\$ Indirect	\$ Total
US Dept of Interior				
Geological Survey	7	156,669	6,331	163,000
National Park Service	2	45,703	11,426	57,129
National Park Service-No. Atlantic Region	1	30,948	4,457	35,405
US Dept of Interior	1	88,442	16,349	104,791
US Fish and Wildlife Service	30	399,414	59,410	458,824
Total	41	\$721,176	\$97,973	\$819,149
US Dept of Justice				
National Inst of Justice	1	92,430	49,912	142,342
Total	1	\$92,430	\$49,912	\$142,342
US Dept of Transportation				
Federal Aviation Administration	2	299,800	156,844	456,644
Total	2	\$299,800	\$156,844	\$456,644
Independent Establishments & Govt Corps				
Environmental Protection Agency	14	1,119,751	548,948	1,668,699
Inter-American Foundation	1	1,425	17,865	19,290
National Aero & Space Administration	16	1,192,786	380,498	1,573,284
National Endowment for the Arts	1	42,750	14,364	57,114
National Endowment for the Humanities	1	102,311	45,017	147,328
National Science Foundation	274	36,237,364	10,416,976	46,654,340
Peace Corps	1	13,426	1,074	14,500
Small Business Administration	1	-30,000	0	-30,000
US Information Agency	3	552,228	12,212	564,440
US Nuclear Regulatory Commission	1	14,970	5,030	20,000
US Securities & Exchange Commission	2	6,479	0	6,479
Work Environment Justice Fund	1	9,170	917	10,087
Total	316	\$39,262,660	\$11,442,901	\$50,705,561

Table 2: Proposals Submitted to Federal Agencies FY 1998

Sponsor	Proposals	\$ Direct	\$ Indirect	\$ Total
Other/Quasi Government Agencies				
National Fish and Wildlife Foundation	1	50,000	0	50,000
National Library of Medicine	2	30,994	3,506	34,500
Smithsonian Astrophysical Observatory	5	223,035	93,162	316,197
Total	8	\$304,029	\$96,668	\$400,697
Total FY 1998 — Federal				
	711	\$75,327,374	\$23,079,983	\$98,407,357
Total FY 1997 — Federal	723	\$69,376,434	\$20,783,911	\$90,160,345
% Change , FY 1997 to FY 98	-2	9	11	9

Figure 4
Percent of Proposal \$ Value to Federal Agencies FY 1998
Total Value-\$98,407,357

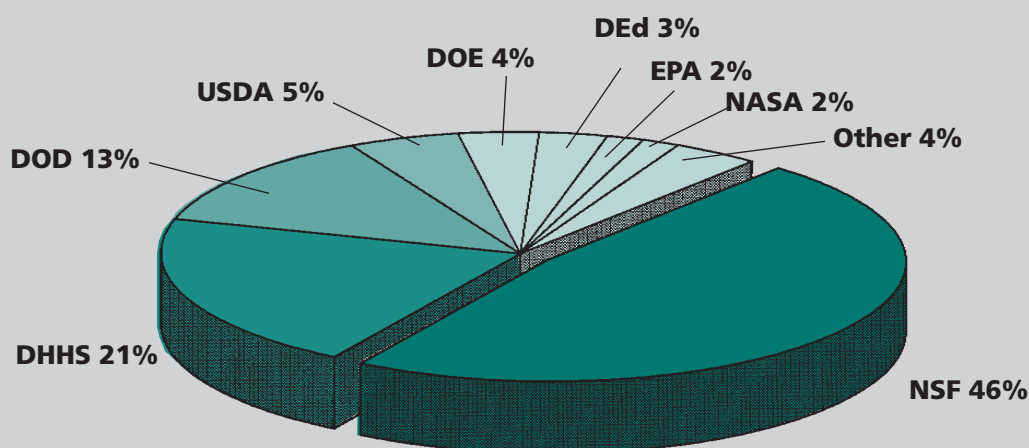


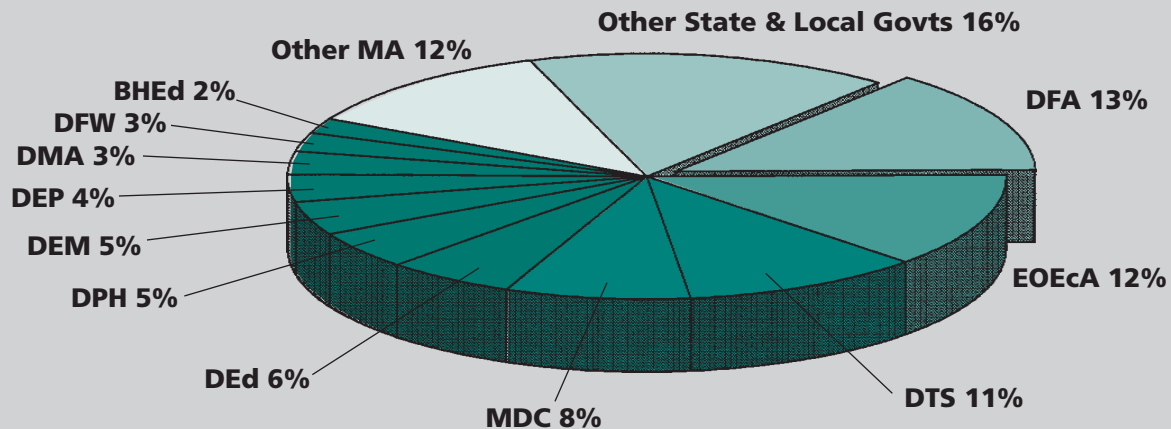
Table 3
Proposals Submitted to the Commonwealth of Massachusetts
FY 1998

Sponsor	Proposals	\$ Direct	\$ Indirect	\$ Total
MA Admin Office of the Trial Court	1	77,273	7,727	85,000
MA Board of Higher Education	5	118,705	9,495	128,200
MA Coastal Zone Management	1	1,785	179	1,964
MA Dept of Education	10	380,389	16,209	396,598
MA Dept of Environmental Management	13	281,437	27,722	309,159
MA Dept of Environmental Protection	8	219,423	21,941	241,364
MA Dept of Fisheries, Wildlife, Envr	1	10,909	1,091	12,000
MA Dept of Food and Agriculture	10	862,300	56,927	919,227
MA Dept of Housing & Community Dev	1	22,727	2,273	25,000
MA Dept of Public Health	6	320,178	12,727	332,905
MA Dept of State Police	1	64,814	6,481	71,295
MA Dept of Transitional Services	2	659,036	67,750	726,786
MA Division of Energy Resources	3	58,194	5,820	64,014
MA Division of Fisheries and Wildlife	15	201,606	5,311	206,917
MA Division of Forests and Parks	2	87,850	8,785	96,635
MA Division of Marine Fisheries	4	62,900	0	62,900
MA Division of Medical Assistance	1	157,554	15,755	173,309
MA Exec Off of Economic Affairs	2	838,113	9,090	847,203
MA Exec Off of Environmental Affairs	2	48,382	4,838	53,220
MA Exec Off of Transportation & Const.	1	10,000	1,000	11,000
MA Higher Ed Coordinating Council	2	65,682	5,255	70,937
MA Highway Department	1	11,305	1,131	12,436
MA Industrial Finance Agency	1	5,000	0	5,000
MA Office for Victim Assistance	2	62,085	0	62,085
MA Office of Travel and Tourism	1	31,800	3,180	34,980
MA Port Authority/Massport	2	62,000	0	62,000
MA Veterans Epidemiology Res & Info Ctr.	1	16,272	1,627	17,899
Massjobs Council	1	45,455	4,545	50,000
Metropolitan District Commission	9	502,464	50,245	552,709
Total FY 1998 — Commonwealth	109	\$5,285,638	\$347,104	\$5,632,742
Total FY 1997 — Commonwealth	94	\$7,883,343	\$603,437	\$8,486,780
% Change , FY 1997 to FY 98	16	-33	-42	-34

Table 4
Proposals Submitted to Other States and Local Governments
FY 1998

Sponsor	Proposals	\$ Direct	\$ Indirect	\$ Total
Ashfield Historical Society	1	1,364	136	1,500
Berkshire Cnty Reg Planning Commission	1	9,091	909	10,000
City of Fitchburg	1	7,605	760	8,365
Conn Dept of Environmental Protection	1	5,165	2,789	7,954
Franklin Regional Council of Government	2	10,636	1,063	11,699
Holyoke City of	3	96,454	9,646	106,100
Martha's Vinyard Commission	1	15,455	1,545	17,000
Maryland Procurement Office	2	296,542	152,358	448,900
New England Transportation Consortium	1	81,454	37,019	118,473
NY State Dept of Health	1	26,340	14,268	40,608
Ohio Department of Mental Health	1	22,134	3,253	25,387
Palmer Police Department	1	4,470	447	4,917
Pioneer Valley Regional Planning Commission	1	12,180	1,220	13,400
Pittsfield City of	1	10,450	1,050	11,500
South Central CT Reg Water Authority	1	66,394	33,693	100,087
Springfield City of	1	4,545	455	5,000
State of RI and Providence Plantations	1	42,367	22,878	65,245
Town of Hadley	1	4,054	405	4,459
Town of Hanson	1	5,840	584	6,424
Town of Wilbraham	1	3,030	303	3,333
Vermont Agency of Transportation	2	61,828	33,522	95,350
Total FY 1998-Other States & Local Govts.	26	\$787,398	\$318,303	\$1,105,701
Total FY 1997-Other States & Local Govts.	38	\$817,741	\$121,589	\$939,330
% Change , FY 1997 to FY 98	-32	-4	162	18

Figure 5
Percent of Proposal \$ Value to Commonwealth of Massachusetts,
Other States and Local Governments FY 1998
Total Value-\$6,738,443



Massachusetts Agencies

BHEd	Board of Higher Education	DMA	Division of Medical Assistance
DEd	Dept of Education	DPH	Dept of Public Health
DEM	Dept of Environmental Management	DTS	Dept of Transitional Services
DEP	Dept of Environmental Protection	EOEcA	Exec Off of Economic Affairs
DFA	Dept of Food & Agriculture	MDC	Metropolitan District Commission
DFW	Division of Fisheries & Wildlife		

Figure 6
Percent of Proposal \$ Value to Private Sector Sponsors FY 1998
Total Value-\$28,568,282

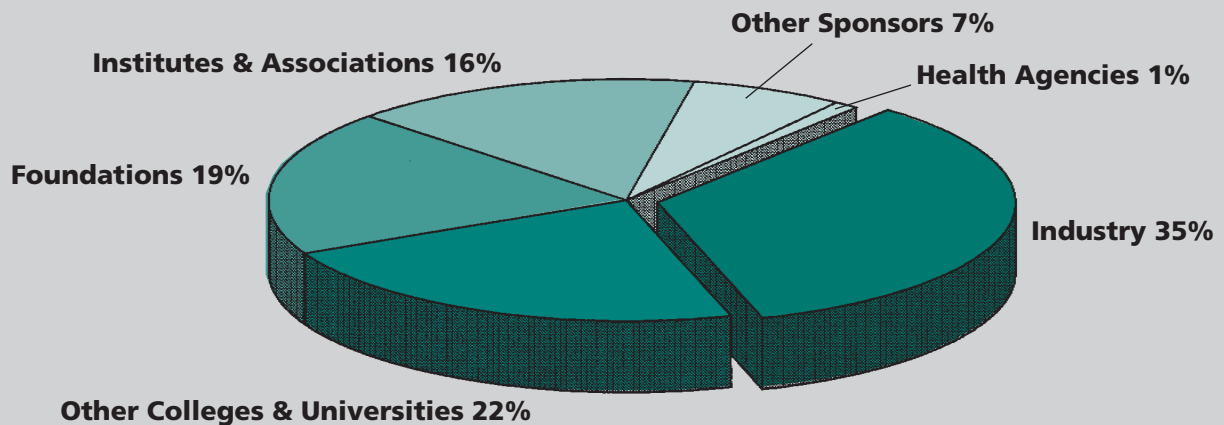


Table 5
Proposals Submitted to the Private Sector FY 1998

Sponsor	Proposals	\$ Direct	\$ Indirect	\$ Total
Non-Profit				
Foundations	87	5,052,996	498,353	5,551,349
Health Agencies	9	233,810	75,978	309,788
Institutes and Associations	107	4,207,484	335,389	4,542,873
Other Colleges and Universities	90	4,758,277	1,656,822	6,415,099
Other Sponsors	52	1,728,398	275,657	2,004,055
Total FY 1998 — Non-Profit	345	\$15,980,965	\$2,842,199	\$18,823,164
Total FY 1997 — Non-Profit	328	\$15,420,474	\$2,714,505	\$18,134,979
% Change , FY 1997 to FY 98	5	4	5	4
Total FY 1998 — Industry	319	\$7,656,753	\$2,088,365	\$9,745,118
Total FY 1997 — Industry	318	\$7,681,792	\$2,351,237	\$10,033,029
% Change , FY 1997 to FY 98	0	0	-11	-3
Total FY 1998 — Private Sector	664	\$23,637,718	\$4,930,564	\$28,568,282
Total FY 1997 — Private Sector	646	\$23,102,266	\$5,065,742	\$28,168,008
% Change , FY 1997 to FY 98	3	2	-3	1

Figure 7
Percent of Proposal \$ Value by Sponsor Category FY 1998

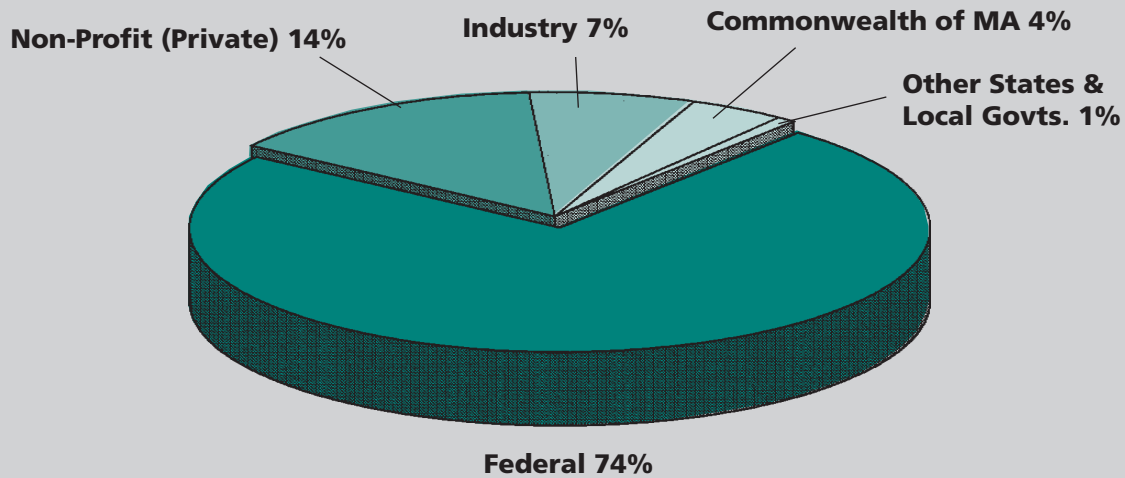


Table 6
Summary of Proposals Submitted by Sponsor Category FY 1998

Sponsor Category	Proposals	\$ Direct	\$ Indirect	\$ Total
Federal	711	\$75,327,374	\$23,079,983	\$98,407,357
Commonwealth	109	\$5,285,638	\$347,104	\$5,632,742
Other States & Local Govts	26	\$787,398	\$318,303	\$1,105,701
Private Sector — Non-Profit	345	\$15,980,965	\$2,842,199	\$18,823,164
Private Sector — Industry	319	\$7,656,753	\$2,088,365	\$9,745,118
Total Fiscal Year 1998	1,510	\$105,038,128	\$28,675,954	\$133,714,082

Awards

Figure 8
Award Dollars Fiscal Years 1989-1998

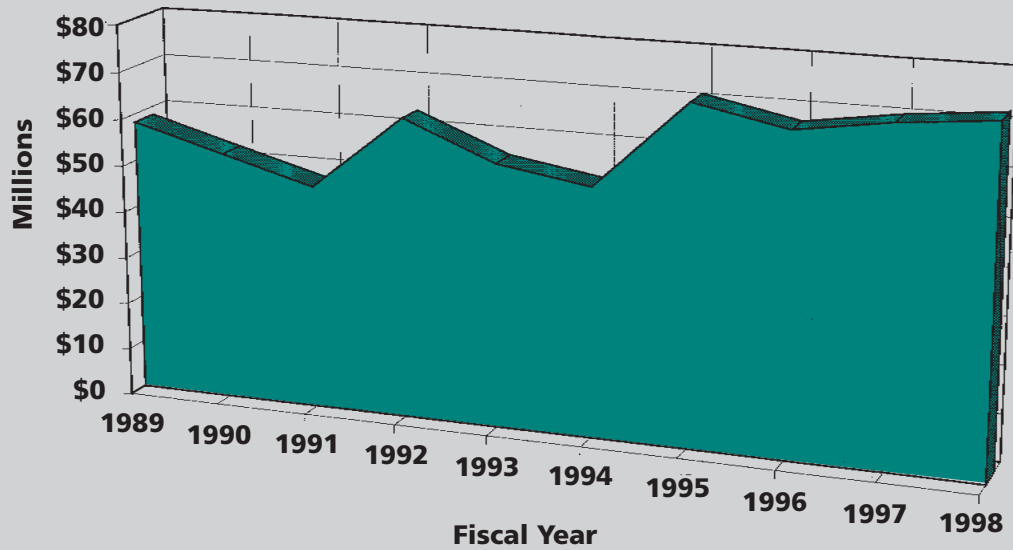


Figure 9
Number of Awards Fiscal Years 1989-1998

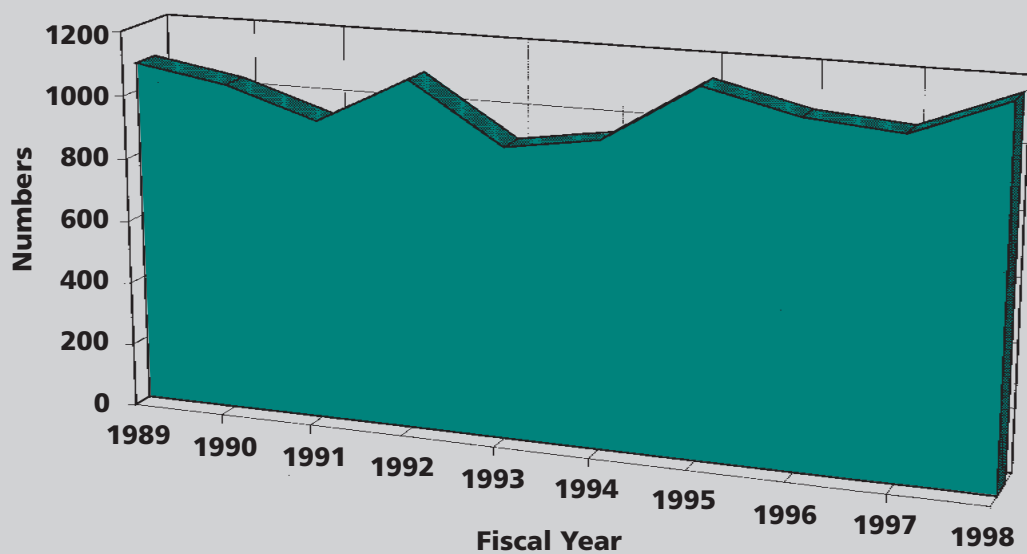


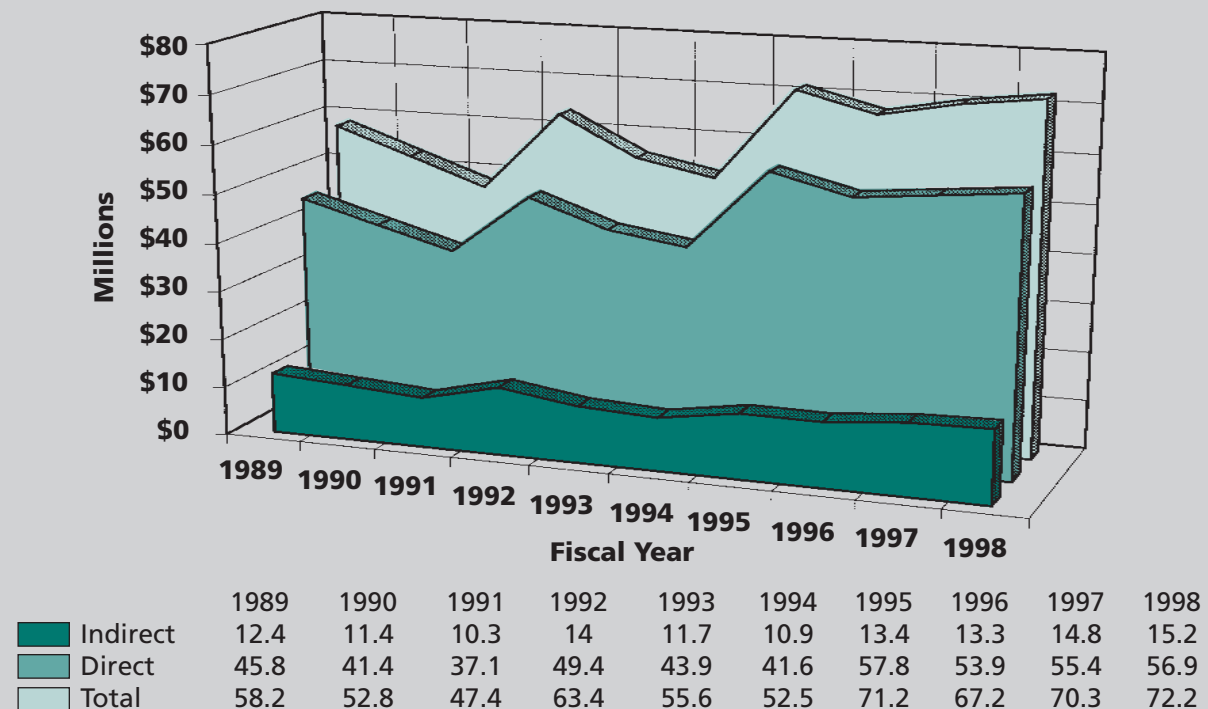
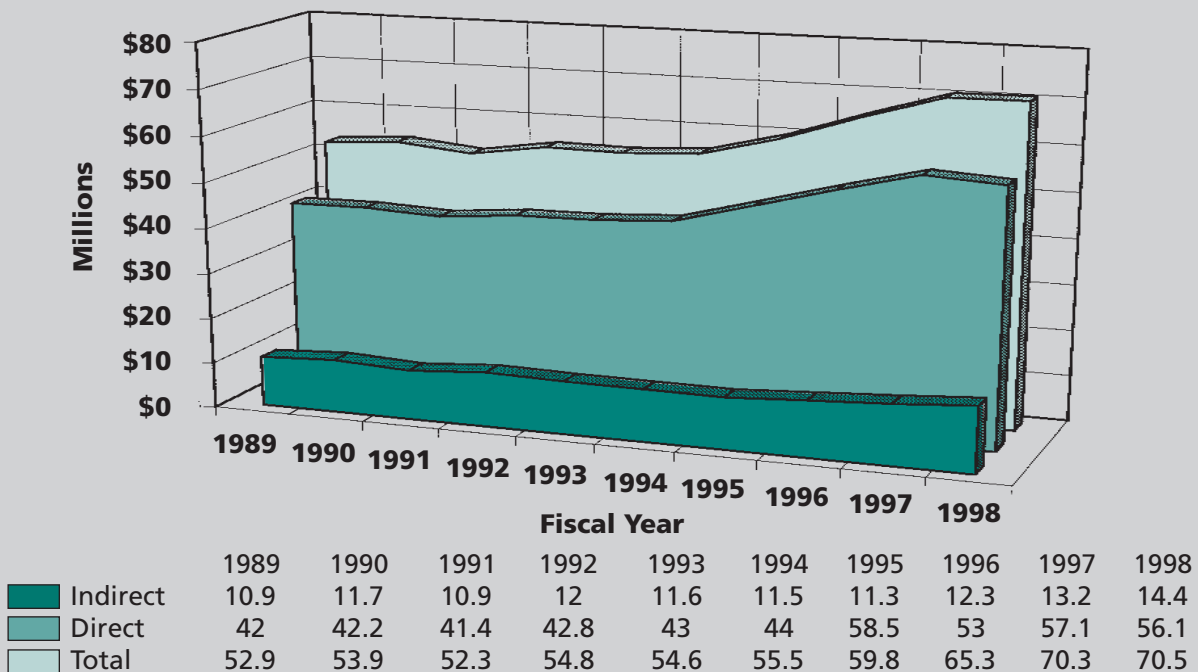
Figure 10**Direct, Indirect & Total \$ Value of Awards Fiscal Years 1989-1998****Figure 11****Direct, Indirect & Total Expenditures Fiscal Years 1989-1998***Data obtained from the Budget Office*

Table 7
Awards Accepted by Organizational Unit FY 1998

Organizational Unit	Proposals	\$ Direct	\$ Indirect	\$ Total
Academic Support				
Fine Arts Center	13	356,520	0	356,520
International Programs	4	186,895	49,640	236,535
MBU Total	17	\$543,415	\$49,640	\$593,055
Academic Support Services				
Academic Support Services	1	201,337	16,107	217,444
MBU Total	1	\$201,337	\$16,107	\$217,444
College of Engineering				
Dean-School of Engineering	1	55,160	28,173	83,333
Chemical Engineering	46	2,368,986	566,334	2,935,320
Civil and Environmental Engineering	24	927,373	216,473	1,143,846
Electrical and Computer Engineering	61	3,048,762	1,065,461	4,114,223
Mechanical and Industrial Engineering	47	2,219,036	653,509	2,872,545
UMASS Transportation Center	1	39,216	20,784	60,000
MBU Total	180	\$8,658,533	\$2,550,734	\$11,209,267
College of Food and Natural Resources				
Administration-CFNR	2	15,696	1,304	17,000
Consumer Studies	3	162,242	76,216	238,458
Entomology	67	1,370,259	136,427	1,506,686
Extension - Cranberry Station	41	121,380	2,080	123,460
Food Science	28	1,413,595	245,837	1,659,432
Forestry and Wildlife Management	81	1,948,790	193,315	2,142,105
Landscape Arch and Regional Planning	7	163,770	16,773	180,543
Microbiology	32	1,167,984	393,874	1,561,858
Plant and Soil Sciences	55	464,499	51,796	516,295
Resource Economics	10	331,297	52,516	383,813
Veterinary and Animal Sciences	16	1,980,194	589,380	2,569,574
MBU Total	342	\$9,139,706	\$1,759,518	\$10,899,224

Table 7: Awards Accepted by Organizational Unit FY 1998

Organizational Unit	Proposals	\$ Direct	\$ Indirect	\$ Total
College of Humanities and Fine Arts				
Comparative Literature	2	79,773	7,727	87,500
English	3	132,319	0	132,319
Germanic Languages and Literature	1	137,365	22,635	160,000
Linguistics	2	93,217	49,177	142,394
Music	1	23,000	0	23,000
Philosophy	1	70,947	11,764	82,711
MBU Total	10	\$536,621	\$91,303	\$627,924
College of Natural Sciences and Math				
Biochemistry and Molecular Biology	17	1,215,377	539,302	1,754,679
Biology	35	2,162,636	986,538	3,149,174
Chemistry	48	2,302,800	802,096	3,104,896
Computer Science	94	5,795,039	2,194,966	7,990,005
Geosciences	30	1,187,500	457,782	1,645,282
Mathematics and Statistics	13	1,008,152	385,912	1,394,064
Physics and Astronomy	46	4,109,003	845,944	4,954,947
Polymer Science and Engineering	85	4,010,549	1,603,120	5,613,669
Scientific Reasoning Research Institute	5	555,461	282,168	837,629
MBU Total	373	\$22,346,517	\$8,097,828	\$30,444,345
College of Social and Behavioral Sciences				
Anthropology	2	38,911	4,457	43,368
Economics	4	1,069,835	15,010	1,084,845
Legal Studies	1	181,818	18,182	200,000
MA Inst For Social and Economic Research	4	169,092	16,908	186,000
Psychology	56	4,108,984	1,402,705	5,511,689
Sociology	7	280,286	40,707	320,993
MBU Total	74	\$5,848,926	\$1,497,969	\$7,346,895
Dean of Students				
Everywoman's Center	5	235,341	0	235,341
MBU Total	5	\$235,341	\$0	\$235,341
Human Resources				
Human Resources	7	164,334	10,969	175,303
MBU Total	7	\$164,334	\$10,969	\$175,303

Table 7: Awards Accepted by Organizational Unit FY 1998

Organizational Unit	Proposals	\$ Direct	\$ Indirect	\$ Total
Physical Plant				
Physical Plant Waste Management	1	4,250	0	4,250
MBU Total	1	\$4,250	\$0	\$4,250
School of Education				
Educational Policy Research and Admin.	10	765,262	195,146	960,408
Student Dev and Pupil Personnel Services	2	43,000	0	43,000
Teacher Ed and Curriculum Studies	10	175,920	15,010	190,930
MBU Total	22	\$984,182	\$210,156	\$1,194,338
School of Management				
Finance and Operations Management	2	6,579	0	6,579
MA Small Business Dev Ctr	8	2,558,845	0	2,558,845
MBU Total	10	\$2,565,424	\$0	\$2,565,424
School of Nursing				
School of Nursing	7	373,587	22,429	396,016
MBU Total	7	\$373,587	\$22,429	\$396,016
School of Public Health and Health Sciences				
Biostatistics and Epidemiology	15	435,263	129,050	564,313
Communications Disorders	5	481,941	185,138	667,079
Community Health Studies	4	176,915	17,431	194,346
Environmental Health Sciences	7	318,962	99,129	418,091
Exercise Science	9	293,740	63,907	357,647
Nutrition	8	820,374	88,632	909,006
Office of the Dean-Health Sciences	1	35,554	0	35,554
MBU Total	49	\$2,562,749	\$583,287	\$3,146,036
University Outreach				
Stem Institute	1	1,096,593	175,067	1,271,660
Extension - UMASS	7	73,834	5,085	78,919
University Without Walls	1	23,760	1,900	25,660
WFCR	2	247,344	0	247,344
MBU Total	11	\$1,441,531	\$1182,052	\$1,623,583
Vice Chancellery for Research/Vice Chancellor for Research				
Office of the VC for Research	4	149,468	4,132	153,600
MBU Total	4	\$149,468	\$4,132	\$153,600

Table 7: Awards Accepted by Organizational Unit FY 1998

Organizational Unit	Proposals	\$ Direct	\$ Indirect	\$ Total
Vice Chancellery for Research/Environmental Institute				
TEI - Forestry	3	178,731	13,586	192,317
The Environmental Institute	38	787,718	129,536	917,254
Water Res and Research Ctr	7	127,937	3,955	131,892
MBU Total	48	\$1,094,386	\$147,077	\$1,241,463
Vice Chancellery for Research/Research Services				
Office of Research Affairs	1	4,400	100	4,500
MBU Total	1	\$4,400	\$100	\$4,500
Vice Chancellery for Research/University Press				
University Press	5	19,392	0	19,392
MBU Total	5	\$19,392	\$0	\$19,392
VC for Research Total	58	\$1,267,646	\$151,3209	\$1,418,955
Cumulative Total FY98	1,167	\$56,874,099	\$15,223,301	\$72,097,400
Cumulative Total FY97	1,049	\$55,370,761	\$14,782,174	\$70,152,935
% Change , FY 1997 to FY 98	11	3	3	3

Figure 12

Percent of Award \$ Value by Major Organizational Unit FY 1998
Indirect Costs-\$15,223,301

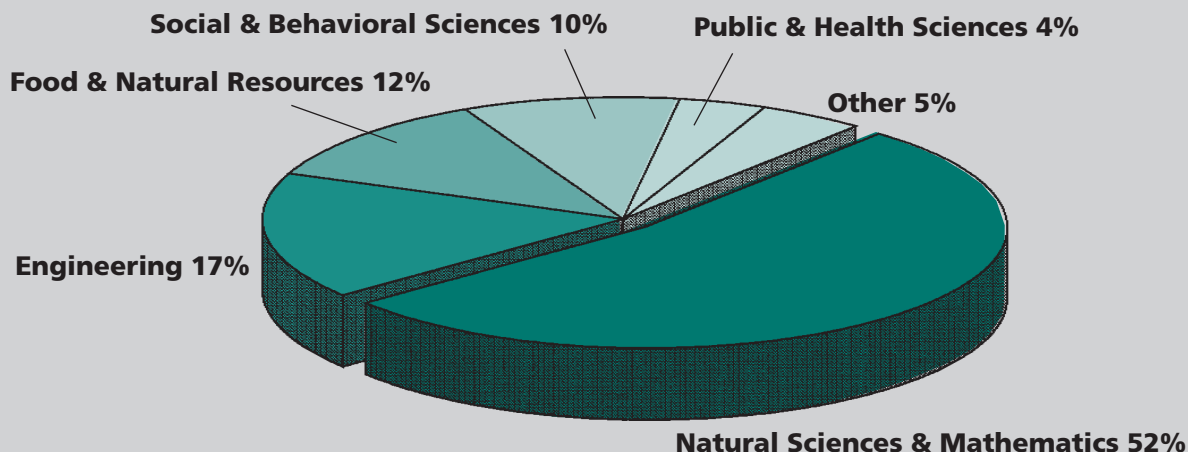


Figure 12

Percent of Award \$ Value by Major Organizational Unit FY 1998
Total Costs-\$72,097,400

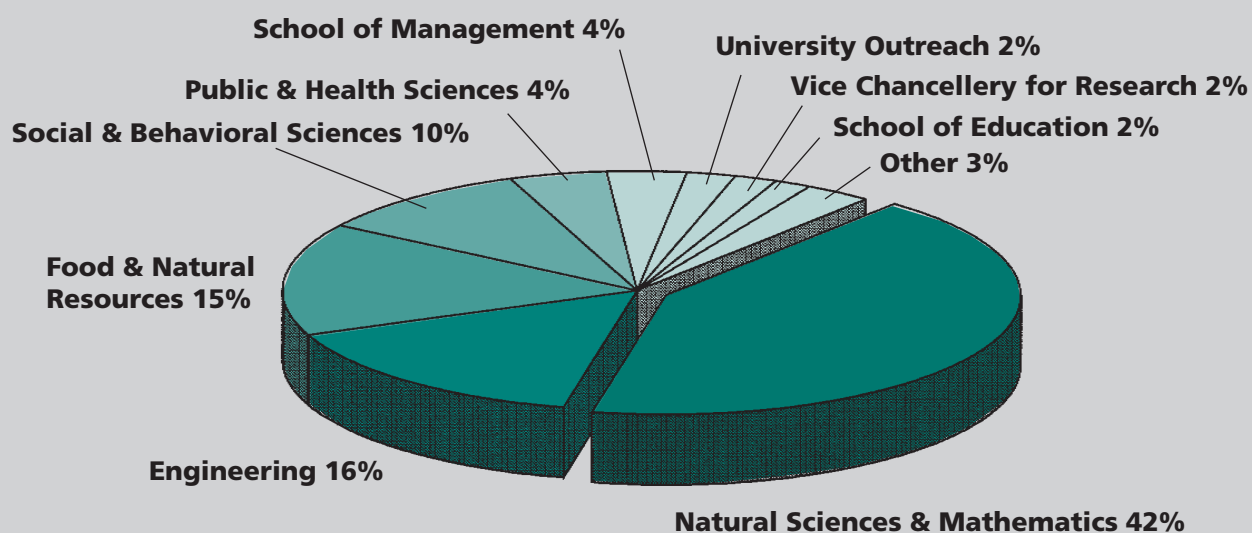


Table 8
Awards Accepted from Federal Agencies FY 1998

Sponsor	Awards	\$ Direct	\$ Indirect	\$ Total
US Dept of Agriculture				
MIS/Animal and Plant Health Inspection	4	93,207	8,146	101,353
NRE/Forest Service	23	637,473	19,279	656,752
SEA/Coop State Res, Educ & Ext Service	10	1,105,160	179,797	1,284,957
SEA/Cooperative State Research Service	3	280,409	44,380	324,789
US Dept of Agriculture	6	161,436	11,364	172,800
USDA/Agricultural Research Service	4	154,000	0	154,000
Total	50	\$2,431,685	\$262,966	\$2,694,651
US Dept of Commerce				
Economic Development Administration	2	107,634	8,366	116,000
National Inst of Standards & Technology	3	143,766	34,470	178,236
NOAA/National Marine Fisheries Service	3	128,685	22,968	151,653
NOAA/National Oceanic & Atmospheric	7	289,829	84,521	374,350
Total	15	\$669,914	\$150,325	\$820,239
US Dept of Defense				
Air Force	11	867,465	371,685	1,239,150
Air Force Office of Scientific Reseach	7	723,594	317,050	1,040,644
Army	4	386,395	194,946	581,341
Army Natick R&D & Engineering Ctr	1	32,046	0	32,046
Army Research Office	8	359,038	135,838	494,876
Naval Command, Control Osc Rdte Div	1	151,361	79,016	230,377
Office of Naval Research	18	1,064,565	449,795	1,514,360
US Dept of Defense	1	46,405	24,595	71,000
Total	51	\$3,630,869	\$1,572,925	\$5,203,794
US Dept of Education				
US Dept of Education	8	766,281	110,739	877,020
Total	8	\$766,281	\$110,739	\$877,020
US Dept of Energy				
US Dept of Energy	15	1,328,328	506,280	1,834,608
Total	15	\$1,328,328	\$506,280	\$1,834,608

Table 8: Awards Accepted from Federal Agencies FY 1998

Sponsor	Awards	\$ Direct	\$ Indirect	\$ Total
US Dept of Health and Human Services				
Admin for Children & Families	1	15,000	0	15,000
PHS/Centers for Disease Control	1	43,857	0	43,857
PHS/Health Resources and Services Admin.	4	331,882	17,595	349,477
PHS/National Institutes of Health	86	7,700,935	3,156,826	10,857,761
Total	92	\$8,091,674	\$3,174,421	\$11,266,095
US Dept of Interior				
Geological Survey	8	219,876	14,741	234,617
National Park Service	2	45,721	11,429	57,150
National Park Service-No. Atlantic Region	1	30,943	4,457	35,400
US Fish and Wildlife Service	33	419,615	62,418	482,033
Total	44	\$716,155	\$93,045	\$809,200
US Dept of Transportation				
Federal Aviation Administration	1	230,263	119,737	350,000
Total	1	\$230,263	\$119,737	\$350,000
Independent Establishments & Govt Corps				
Environmental Protection Agency	7	200,862	62,281	263,143
Inter-American Foundation	1	4,400	100	4,500
National Aero & Space Administration	20	991,556	350,134	1,341,690
National Endowment for the Humanities	2	208,312	34,399	242,711
National Science Foundation	162	14,922,012	4,955,235	19,877,247
Peace Corps	1	13,426	1,074	14,500
Small Business Administration	2	1,680,706	0	1,680,706
US Nuclear Regulatory Commission	2	100,160	34,506	134,666
US Securities & Exchange Commission	2	6,579	0	6,579
Total	199	\$18,128,013	\$5,437,729	\$23,565,742
Other/Quasi Government Agencies				
National Library of Medicine	2	30,994	3,506	34,500
Smithsonian Astrophysical Observatory	5	144,155	56,197	200,352
Smithsonian Institution	1	16,236	8,767	25,003
Total	8	\$191,385	\$68,470	\$259,855
Total FY 1998 — Federal	483	\$36,184,567	\$11,496,637	\$47,681,204
Total FY 1997 — Federal	414	\$34,041,319	\$10,795,370	\$44,836,689
% Change, FY 1997 to FY 1998	17	6	6	6

Figure 13
Percent of Awards \$ Value from Federal Agencies FY 1998
Indirect Costs-\$11,496,637

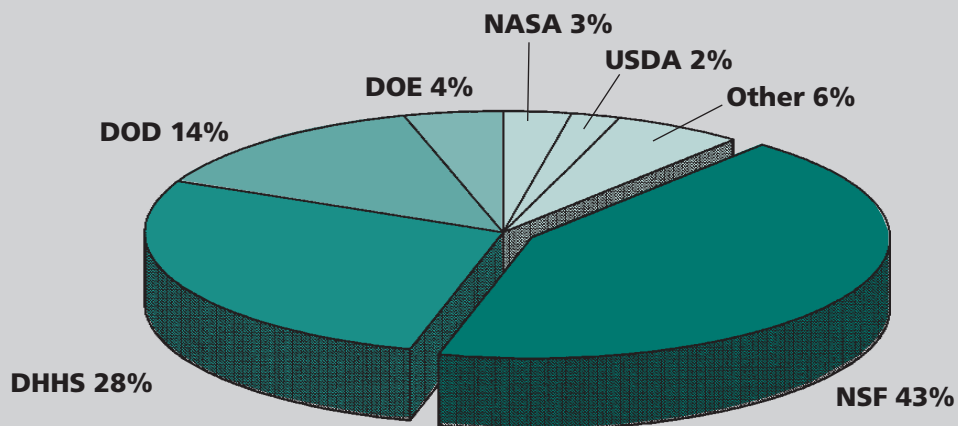


Figure 13
Percent of Award \$ Value from Federal Agencies FY 1998
Total Costs-\$47,681,204

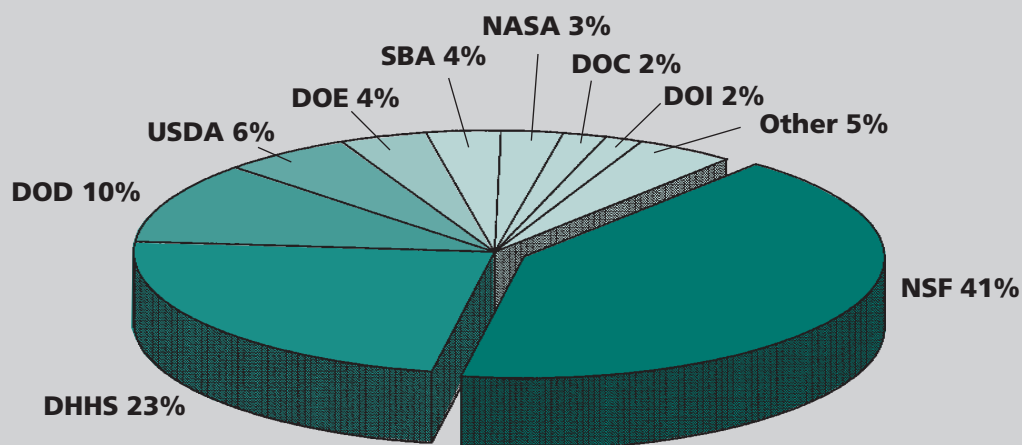


Table 9
Awards Accepted from the Commonwealth of Massachusetts
FY 1998

Sponsor	Awards	\$ Direct	\$ Indirect	\$ Total
MA Admin Office of the Trial Court	1	77,273	7,727	85,000
MA Board of Higher Education	3	41,669	3,331	45,000
MA Coastal Zone Management	1	1,785	179	1,964
MA Cultural Council	2	35,720	0	35,720
MA Dept of Education	9	245,815	13,292	259,107
MA Dept of Environmental Management	11	231,849	22,762	254,611
MA Dept of Environmental Protection	2	14,181	1,418	15,599
MA Dept of Fisheries, Wildlife, Environmental Law	1	10,909	1,091	12,000
MA Dept of Food and Agriculture	11	721,151	35,685	756,836
MA Dept of Housing & Community Dev	1	22,727	2,273	25,000
MA Dept of Public Health	7	424,128	12,727	436,855
MA Dept of State Police	1	32,407	3,241	35,648
MA Dept of Transitional Services	3	719,595	73,806	793,401
MA Division of Energy Resources	3	58,194	5,820	64,014
MA Division of Fisheries and Wildlife	13	188,791	4,029	192,820
MA Division of Forests and Parks	2	87,850	8,785	96,635
MA Division of Marine Fisheries	2	37,900	0	37,900
MA Exec Off of Economic Affairs	2	838,113	9,090	847,203
MA Exec Off of Environmental Affairs	2	48,382	4,838	53,220
MA Exec Off of Public Safety	1	49,960	0	49,960
MA Exec Off of Transportation & Construction	1	10,000	1,000	11,000
MA Highway Department	1	11,305	1,131	12,436
MA Industrial Finance Agency	1	5,000	0	5,000
MA Office for Victim Assistance	1	20,537	0	20,537
MA Port Authority/Massport	2	62,000	0	62,000
Massjobs Council	1	45,455	4,545	50,000
Metropolitan District Commission	9	337,095	33,708	370,803
Total FY 1998 — Commonwealth	94	\$4,379,791	\$250,478	\$4,630,269
Total FY 1997 — Commonwealth	74	\$7,802,082	\$642,228	\$8,444,310
% Change, FY 1997 to FY 1998	27	-44	-61	-45

Table 10
Awards Accepted from Other States and Local Governments
FY 1998

Sponsor	Awards	\$ Direct	\$ Indirect	\$ Total
Ashfield Historical Society	1	1,364	136	1,500
Berkshire Cnty Reg Planning Commission	1	9,091	909	10,000
City of Fitchburg	1	7,605	760	8,365
Conn Agricultural Experiment Station	1	80,554	13,113	93,667
Conn Dept of Environmental Protection	1	5,682	3,068	8,750
Franklin Regional Council of Government	1	1,546	154	1,700
Franklin/Hampshire Empl & Train Consortium	1	75,704	4,300	80,004
Holyoke City of	3	96,454	9,646	106,100
Holyoke Public Schools	1	48,687	4,868	53,555
Martha's Vinyard Commission	1	15,455	1,545	17,000
Maryland Procurement Office	1	131,897	68,103	200,000
Ohio Department of Mental Health	2	26,953	3,433	30,386
Palmer Police Department	1	4,470	447	4,917
Pioneer Valley Regional Planning Commission	1	11,818	1,182	13,000
Pittsfield City of	1	10,450	1,050	11,500
South Central CT Reg Water Authority	1	49,394	25,053	74,447
Springfield City of	1	4,542	454	4,996
Springfield Public Schools	1	23,000	0	23,000
State of RI and Providence Plantation	1	42,207	22,793	65,000
Town of Hadley	1	4,054	405	4,459
Town of Hanson	1	5,840	584	6,424
Town of Wilbraham	1	3,030	303	3,333
Total FY 1998-Other States & Local Govts	25	\$659,797	\$162,306	\$822,103
Total FY 1997-Other States & Local Govts	28	\$486,953	\$58,756	\$545,709
% Change, FY 1997 to FY 1998	-11	35	176	51

Figure 14

Percent of Award \$ Value from Commonwealth, Other State and Local Gov'ts FY 1998 - Indirect Costs-\$412,784

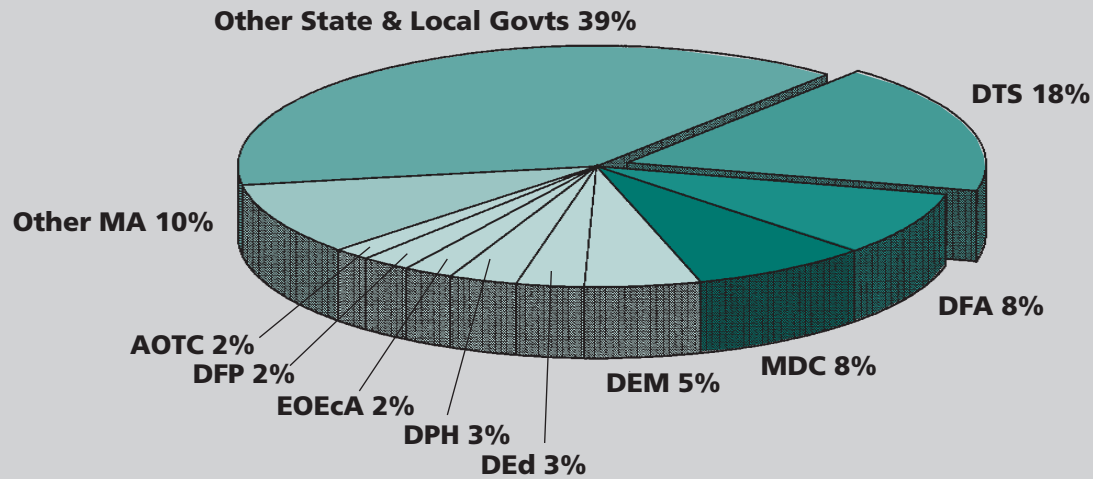
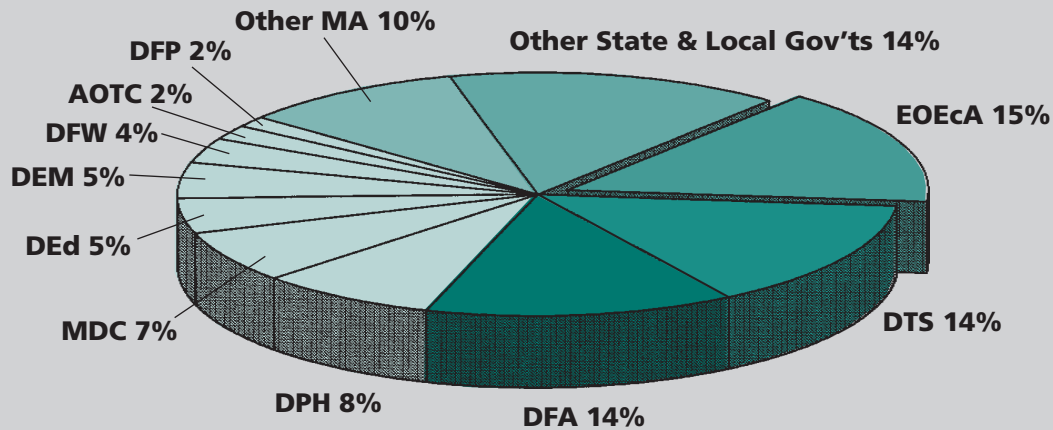


Figure 14

Percent of Award \$ Value from Commonwealth, Other State and Local Gov'ts - Total Costs-\$5,452,372



Massachusetts Agencies

AOTC Admin Office of the Trial Court
 DEd Dept of Education
 DEM Dept of Environmental Management
 DFA Dept of Food & Agriculture
 DFP Division of Forests and Parks

DFW Division of Fisheries & Wildlife
 DPH Dept of Public Health
 DTS Dept of Transitional Services
 EOEcA Exec Off of Economic Affairs
 MDC Metropolitan District Commission

Table 11
Awards Accepted from the Private Sector FY 1998

Sponsor	Awards	\$ Direct	\$ Indirect	\$ Total
Non-Profit				
Foundations	46	2,548,879	91,423	2,640,302
Health Agencies	6	92,813	9,206	102,019
Institutes and Associations	95	1,698,695	230,054	,928,749
Other Colleges and Universities	83	3,599,443	1,036,559	4,636,002
Other Sponsors	32	1,138,457	175,935	1,314,392
Total FY 1998 — Non-Profit	262	\$9,078,287	\$1,543,177	\$10,621,464
Total FY 1997 — Non-Profit	239	\$7,253,307	\$1,419,344	\$8,672,651
% Change, FY 1997 to FY 1998	10	25	9	22
Total FY 1998 — Industry	303	\$6,571,657	\$1,770,703	\$8,342,360
Total FY 1997 — Industry	294	\$5,787,100	\$1,866,476	\$7,653,576
% Change, FY 1997 to FY 1998	3	14	-5	9
Total FY 1998 — Private Sector	565	\$15,649,944	\$3,313,880	\$18,963,824
Total FY 1997 Private Sector	533	\$13,040,407	\$3,285,820	\$16,326,227
% Change, FY 1997 to FY 1998	6	20	1	16

Figure 15
Percent of Award \$ Value from the Private Sector FY 1998
Indirect Costs-\$3,313,880

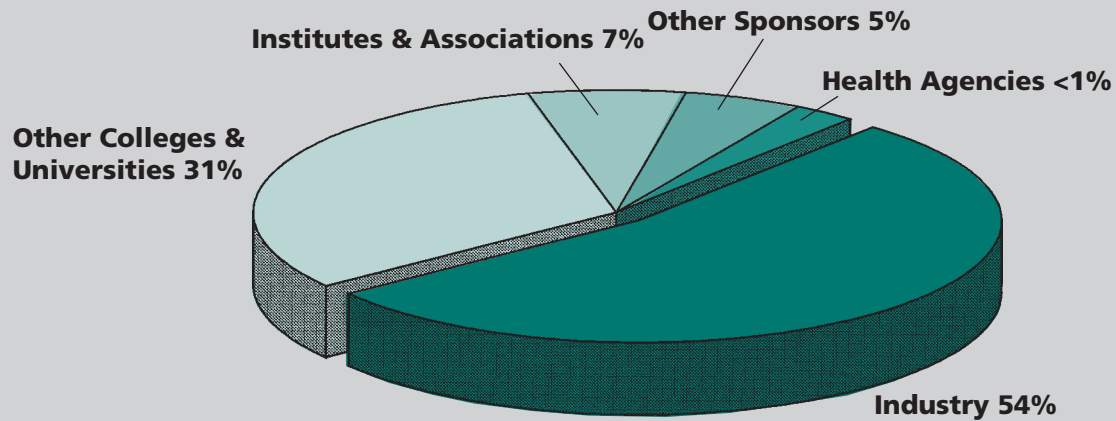


Figure 15
Percent of Award \$ Value from the Private Sector FY 1998
Total Costs-\$18,963,824

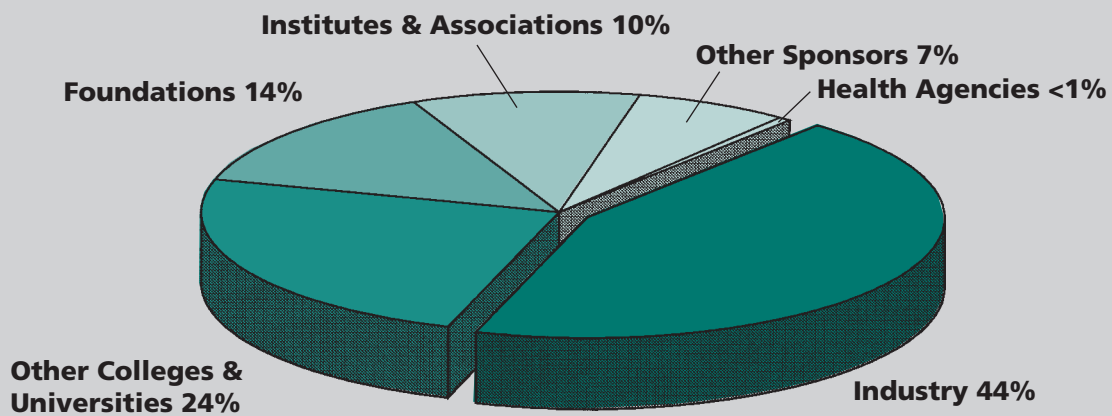


Table 12
Summary of Awards Accepted by Sponsor Category FY 1998

Sponsor Category	Awards	\$ Direct	\$ Indirect	\$ Total
Federal	483	\$36,184,567	\$11,496,637	\$47,681,204
Commonwealth of Massachusetts	94	\$4,379,791	\$250,478	\$4,630,269
Other States & Local Govts	25	\$659,797	\$162,306	\$822,103
Private Sector — Non-Profit	262	\$9,078,287	\$1,543,177	\$10,621,464
Private Sector — Industry	303	\$6,571,657	\$1,770,703	\$8,342,360
Total Fiscal Year 1998	1,167	\$56,874,099	\$15,223,301	\$72,097,400

Figure 16
Percent of Award \$ Value by Sponsor Category FY 1998
Indirect Costs-\$15,223,301

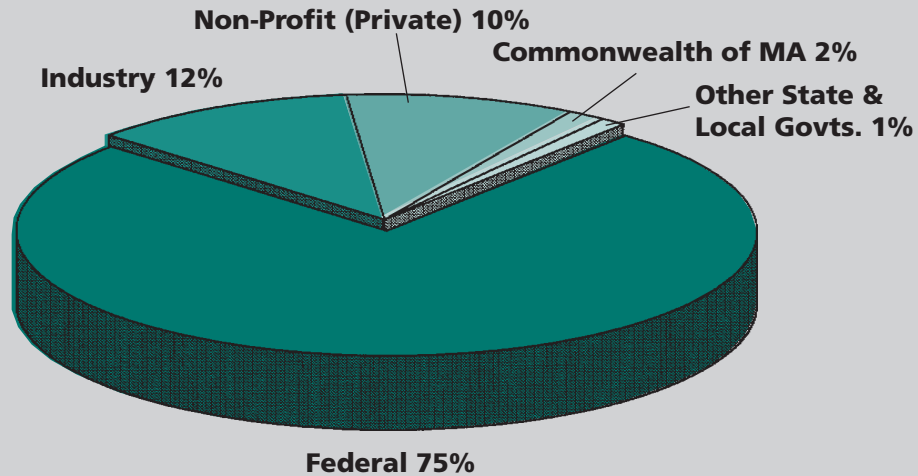


Figure 16
Percent of Award \$ Value by Sponsor Category FY 1998
Total Costs-\$72,097,400

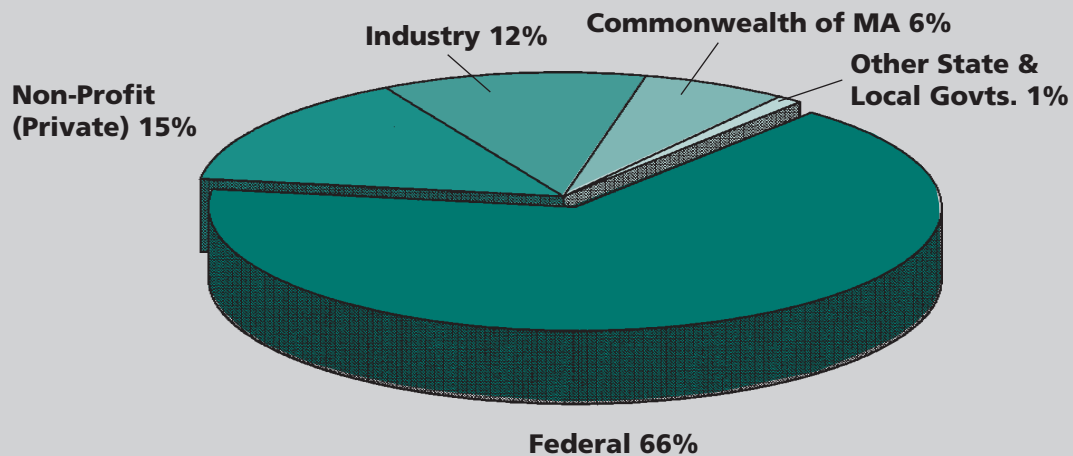


Table 13
Summary of Project Characteristics & Award Types FY 1998
by Sponsor Category

	Project Type	Award Type	Number Awards	\$ Amount Awards
Federal	Research	Grant	356	36,966,583
	Instruction	Grant	2	149,455
	Other	Grant	17	1,143,137
	Research	Contract	93	8,067,731
	Instruction	Contract	3	34,096
	Other	Contract	12	1,320,212
Commonwealth of Massachusetts	Research	Grant	1	10,000
	Instruction	Grant	0	0
	Other	Grant	1	5,000
	Research	Contract	62	2,221,387
	Instruction	Contract	12	342,677
	Other	Contract	18	2,051,205
Other States & Local Govt's	Research	Grant	2	95,367
	Instruction	Grant	0	0
	Other	Grant	1	23,000
	Research	Contract	16	513,677
	Instruction	Contract	1	53,555
	Other	Contract	5	136,504
Non-Profit Private	Research	Grant	110	3,253,899
	Instruction	Grant	3	101,500
	Other	Grant	33	832,248
	Research	Contract	89	5,577,004
	Instruction	Contract	2	49,781
	Other	Contract	25	807,032
Industry	Research	Grant	162	2,030,059
	Instruction	Grant	0	0
	Other	Grant	13	184,619
	Research	Contract	109	5,411,364
	Instruction	Contract	1	53,490
	Other	Contract	18	662,828
Total			1,167	\$72,097,400